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## 超声检测胎儿心脏憩室和室壁瘤各2胎报告及文献复习

### Ultrasonic diagnosis of fatal cardiac diverticulum and ventricular aneurysm: Four cases report and literature review

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中文摘要:

目的 探讨二维超声联合四维超声时空关联成像(STIC)诊断胎儿心脏憩室(CD)和室壁瘤(VA)的价值。方法 采用二维超声联合四维STIC诊断2胎CD和2胎VA。检索Medline数据库,获1990年以来所有产前诊断CD和VA的相关文献,分析鉴别诊断胎儿CD和VA的要点、二者自然转归及宫内干预治疗疗效。结果 二维超声联合四维超声STIC可鉴别CD和VA;心包积液及宫包穿刺术对CD的自然转归无显著影响( $P>0.05$ );CD和VA的自然转归差异无统计学意义( $P>0.05$ )。结论 二维超声联合四维超声STIC是产前诊断CD和VA的首选方法,CD和VA的自然转归明显差异,宫内干预治疗对CD胎儿的自然转归无显著影响。

英文摘要:

**Objective** To explore the value of 2D-ultrasound combined with 4D-ultrasound spatio-temporal image correlation (STIC) in diagnosis of congenital cardiac diverticula (CD) and ventricular aneurysm (VA). **Methods** Two fetuses with CD and 2 with VA were diagnosed using 2D-ultrasound combined with 4D-ultrasound STIC. Literature related to prenatal diagnosis of fetal CD and VA in Medline (1990-1999) were reviewed. Differential diagnosis, nature history and intrauterine treatment effect of fetal CD and VA were analyzed. **Results** Prenatal 2D-ultrasound combined with 4D-ultrasound STIC could differentiate CD and VA. There was no significant difference of natural outcome between fetal CD and VA ( $P>0.05$ ). Pericardial effusion and intrauterine pericardiocentesis had no significant impact on natural outcome of CD fetus (both  $P>0.05$ ). **Conclusion** 2D-ultrasound combined with 4D-ultrasound STIC is a preferred method for diagnosing fetal CD and VA. There is no difference of natural outcome between fetal CD and VA, while intrauterine treatment has no obvious impact on fetal CD.

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